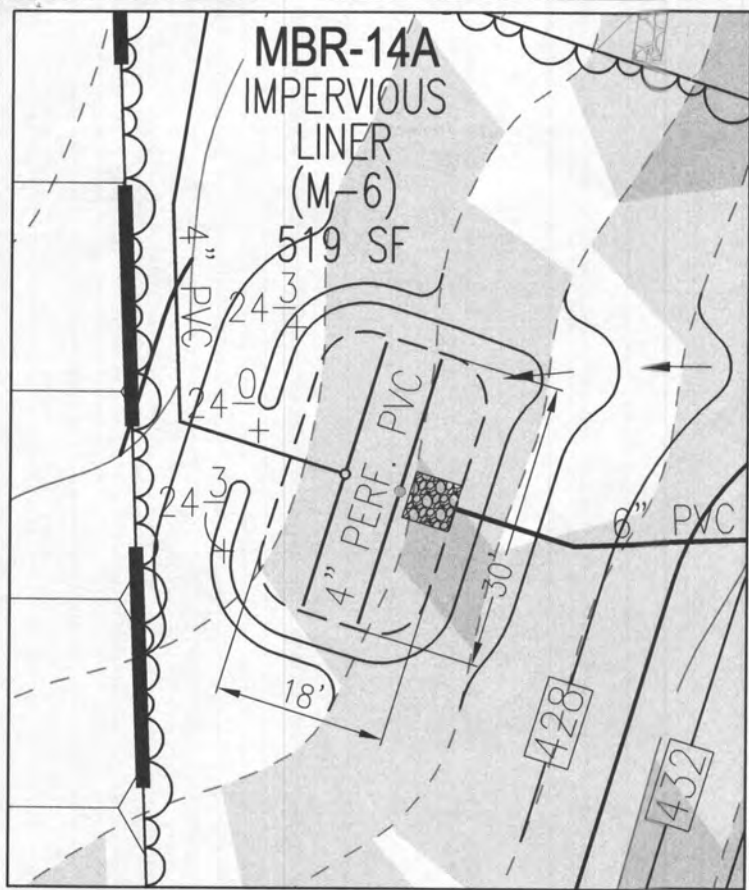
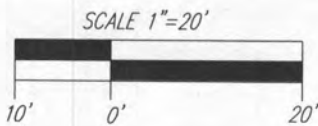




SPILL WAY ELEVATION = 424.00

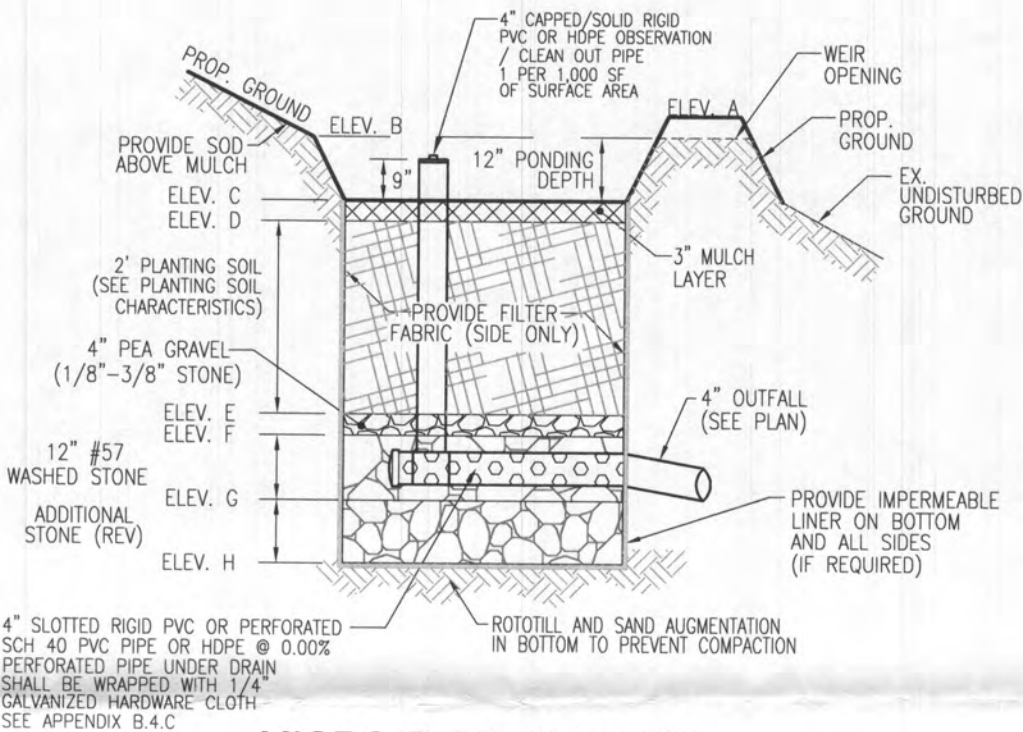
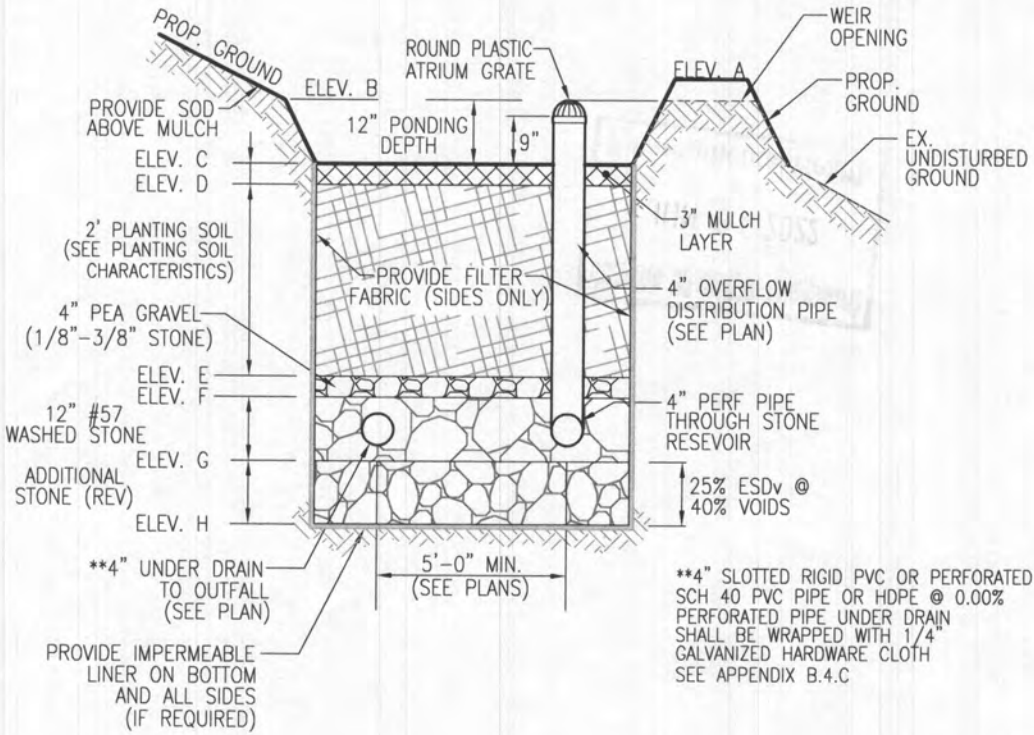
MBR-14A DESIGN DETAIL (519 SF)

SCALE: 1"=20'



MBR-14A

D.A.=14,637 SF IMP=4,891 I=33
Rv=0.05+(0.009)(33)=.35
ESDv=(14,637)(1.58)(0.35)/12=675 CF
AREA ABOVE MULCH=(675 CF)(0.75)=506 SF
PROVIDED 519 SF



MICRO-BIORETENTION

W/ WEIR OUTFALL
NOT TO SCALE

MICRO-BIORETENTION FACILITY ELEVATIONS (M-6)												
LOT #	FACILITY	A	B	C	D	E	F	G	H	WEIR ELEV.	UNDERDRAIN INV. OUT	OUTFALL INV.
LOT 9	MBR-14A*	424.30	424.00	423.00	422.75	420.75	420.42	419.42	418.59	424.00	419.75	416.00

*PROVIDE AN IMPERVIOUS LINER WITH THIS FACILITY.

geotextile fabric (if required)	ASTM-D-4833 (puncture strength - 125 lb.) ASTM-D-4632 (Tensile Strength - 300 lb.)	0.08" thick equivalent opening size of #80 sieve	Must maintain 125 gpm per sq. ft. flow rate. Note: a 4" pea gravel layer may be substituted for geotextiles meant to "separate" sand filter layers.
impermeable liner (if required)	ASTM-D-4833 (thickness) ASTM-D-412 (tensile strength 1,100 lb., elongation 200%) ASTM-D-624 (Tear resistance - 150 lb./in) ASTM-D-471 (water adsorption: +8 to -2% mass)	30 mil thickness	Liner to be ultraviolet resistant. A geotextile fabric should be used to protect the liner from puncture.

IMPERMEABLE LINER SPECIFICATIONS

PLOT PLAN
THE ESTATES AT RIVER HILL - LOT 9

13601 NOBLE WAY
HIGHLAND, MD 20777

SCALE AS SHOWN
DRAWN BY JMR
CHECKED BY RHV
DATE MAY 24, 2022
W. O. # 15-39
SHEET# 3 OF 4

5TH ELECTION DISTRICT
TAX MAP: 34 PARCEL: 389
DPZ REF'S: ECP:16-064, WP-17-034,
WP-17-128, SP-17-007, F-18-064

BLOCK: 23
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

Table B.4.1 Materials Specifications for Micro-Bioretentation, Rain Gardens & Landscape Infiltration-			
Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; F _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) <i>not using previously approved State or local standards</i> requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

OPERATION AND MAINTENANCE SCHEDULE FOR (M-6) MICROBIORETENTION AREAS

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOL. II, TABLE A.4.1 AND 2.
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

MICROBIORETENTION NOTES:

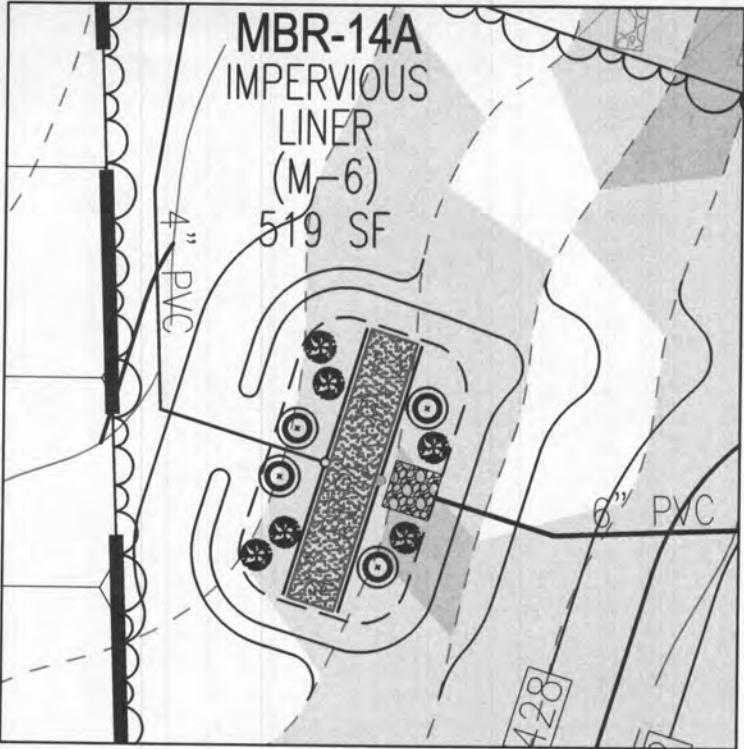
1. ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETENTION WILL CAUSE THE MBR TO FAIL, AND THEREFORE SHALL NOT BE INSTALLED.
2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH.
3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFERATED PIPE THROUGH STONE RESIVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS. (SEE PLANS)

"MICRO-BIORETENTION" PLANTING SCHEDULE NOTES:

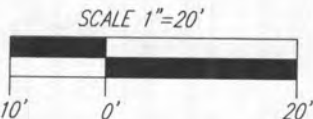
1. ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HOWARD COUNTY PLANTING SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
3. FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
4. CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.
5. MICROBIORETENTION AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (.0229 STEMS PER SQUARE FOOT). ABOVE PLANTING RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESDv SUMMARY.
6. FILTER AREA SHALL BE 50% COVERED BY PLANTINGS AT FULL GROWTH

MICRO-BIORETENTION PLANTING SCHEDULE (MBR-14A)				
KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
	4	LINDERA BENZOIN SPICEBUSH	3 GALLON	CONT
	6	ILEX GLABRA INKBERRY	3 GALLON	CONT
	150 SF	LOBELIA CARDINALIS CARDINAL FLOWER	2" POT	1" O.C.

1. SF x 0.0229 STEMS PER SQUARE FOOT = PLANTS REQUIRED
2. PLANTINGS REQUIRED: 12
3. (50 SF) CARDINAL FLOWER = 1 PLANTING UNIT



MBR-14A PLANTING DETAIL (519 SF)
SCALE: 1"=20'



SCALE AS SHOWN

DRAWN BY JMR

CHECKED BY RHV

DATE MAY 24, 2022

W. O. # 15-39

SHEET# 4 OF 4

PLOT PLAN

THE ESTATES AT RIVER HILL - LOT 9

13601 NOBLE WAY

HIGHLAND, MD 20777

5TH ELECTION DISTRICT

TAX MAP: 34 PARCEL: 389

DPZ REF'S: ECP-16-064, WP-17-034,

WP-17-128, SP-17-007, F-18-064

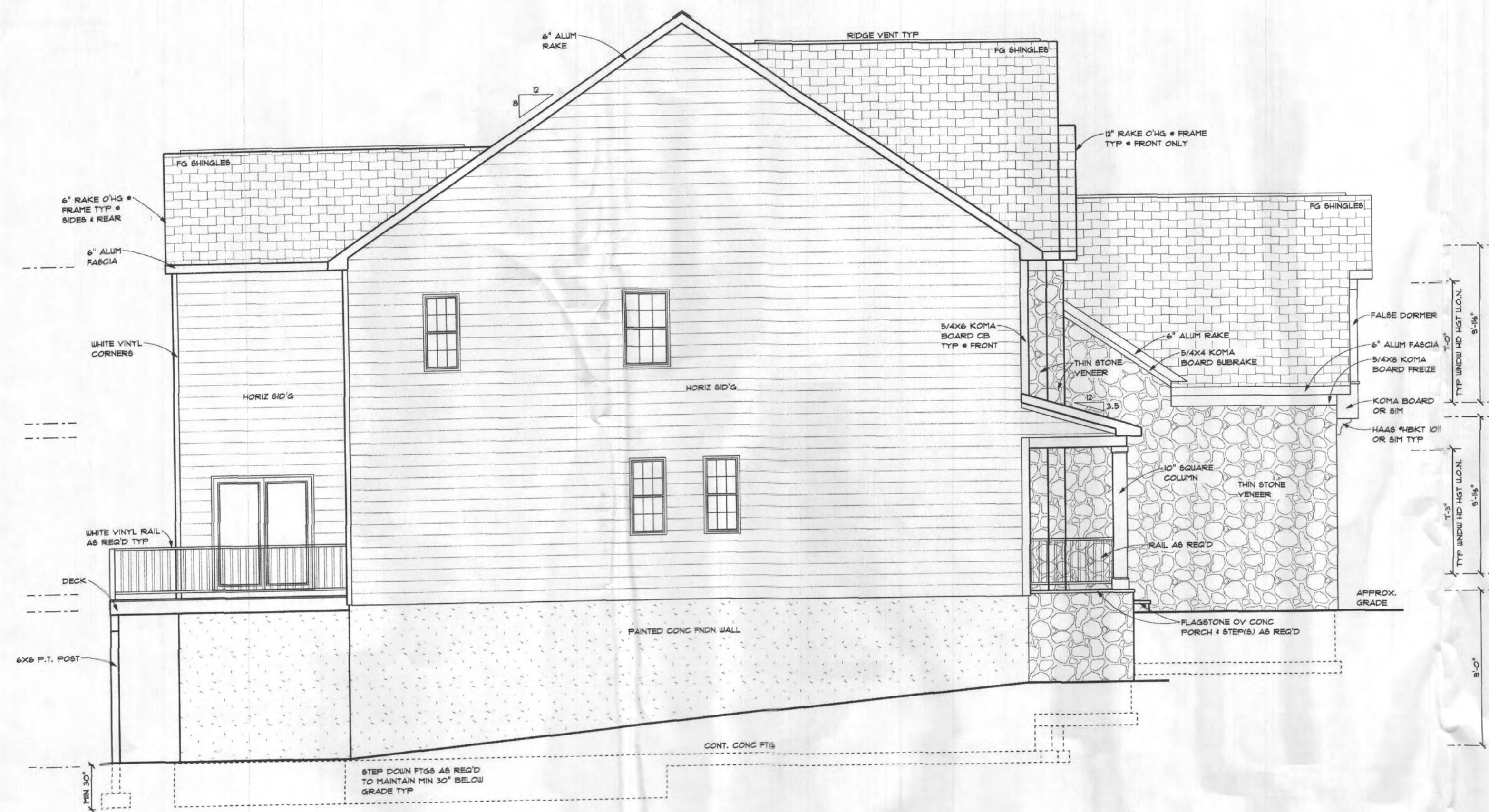
BLOCK: 23

ZONED: RR-DEO

HOWARD COUNTY, MARYLAND

The Yorkshire Manor III - 3 Car

LOT 9
THE ESTATES AT
RIVER HILL



Left Elevation
SCALE: 3/16" = 1'-0"



Front Elevation #727
SCALE: 1/4" = 1'-0"

NOTE: FRONT, SIDES & REAR.
WHITE ALUM. SOFFIT & FASCIA.

NOTE: INSULATOR
ANTI-AIR INFILTRATION SYSTEM:
CAULKING AT EXTERIOR JOINTS,
SEAMS, AND OPENINGS AROUND
DOOR AND WINDOW JAMBS, FOAM
SEALER AT OPENINGS ON
EXTERIOR WALLS.

NOTE: CARPENTER
TYVEK HOUSE WRAP ALL 4 SIDES

UNITED DOUBLE-HUNG WINDOWS
5900 DOUBLE HUNG, LOW-E TILT &
WASH WINDOWS W/ GRILLES,
SCREENS, WOOD EXTENSIONS &
CASINGS EXCEPT GARAGE

**NOTE: USE WINDOW DEVICES WHERE
REQUIRED PER IRC 2021 R312.2**

**NOTE: HERITAGE 30 YEAR LAYERED
ARCHITECTURAL SHINGLE BY TAMKO**

INTERIOR SPRINKLER
STANDARD HEADS EXPOSED

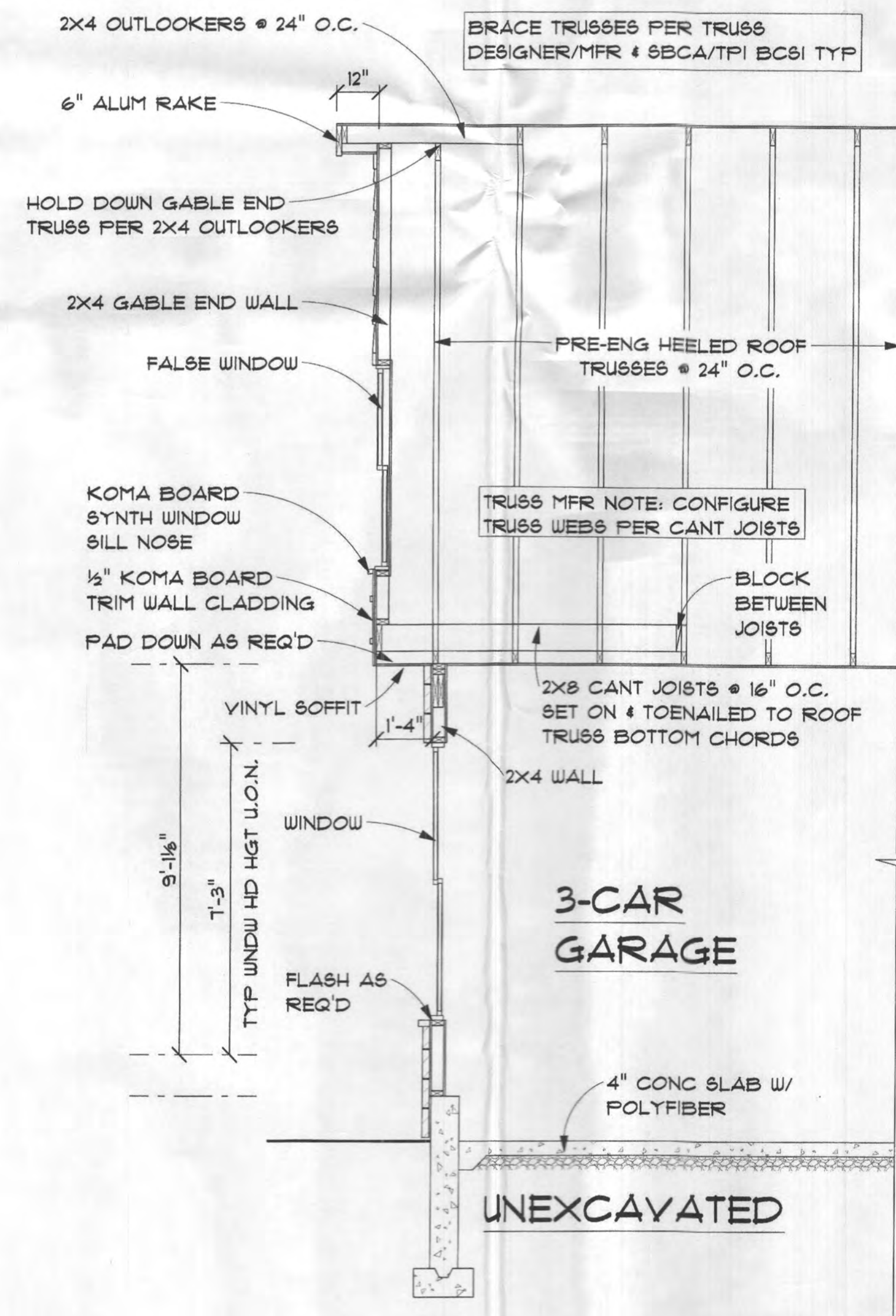
2021 CODE



Right Elevation
SCALE: 3/16" = 1'-0"



Rear Elevation
SCALE: 3/16" = 1'-0"



Detail at False Dormer
SCALE: 3/8" = 1'-0"

2018 IECC ENERGY CODE COMPLIANCE REQUIREMENTS

2018 IECC ENERGY CODE COMPLIANCE REQUIREMENTS	
THE BUILDING SHALL CONFORM TO THE FOLLOWING MANDATORY REQUIREMENTS PER THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE:	
COMPLIANCE CERTIFICATE	A PERMANENT CERTIFICATE APPROVED BY THE LOCAL JURISDICTION DESCRIBING THE R-VALUES, U-FACTORS, AND SHGC OF THE BUILDING COMPONENTS AND BUILDING AIR LEAKAGE TEST RESULTS SHALL BE AFFIXED TO THE ELECTRICAL DISTRIBUTION PANEL OR ANOTHER LOCATION APPROVED BY THE LOCAL JURISDICTION, PER IECC R401.3 (IRC N1101.14).
AIR LEAKAGE	ALL NEW CONSTRUCTION BUILDINGS SHALL BE CONSTRUCTED TO LIMIT THE THERMAL ENVELOPE AIR LEAKAGE TO 3 AIR CHANGES PER HOUR AT 50 PASCALS OF PRESSURE AND TESTED VIA A BLOWER DOOR TEST PER IECC R402.4 (IRC N1102.4).
MAXIMUM FENESTRATION U-FACTOR AND SHGC	THE MAXIMUM U-FACTOR ALLOWED USING EITHER THE TOTAL UA ALTERNATIVE METHOD PER IECC R402.1.5 (IRC N1102.1.5) OR THE SIMULATED PERFORMANCE ALTERNATIVE PER IECC R405 (IRC N1105) SHALL BE 0.48 FOR VERTICAL FENESTRATION AND 0.75 FOR SKYLIGHTS PER IECC R402.5 (IRC N1102.5).
HVAC CONTROLS	EACH HEATING AND COOLING SYSTEM SHALL HAVE AT LEAST ONE THERMOSTAT PER IECC R403.1 (IRC N1103.1). THE THERMOSTAT CONTROLLING THE PRIMARY HEATING AND COOLING SYSTEM SHALL BE A PROGRAMMABLE THERMOSTAT PER IECC R403.1.1 (IRC N1103.1.1).
HEAT PUMP SUPPLEMENTARY HEAT	HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTAL HEAT FROM OPERATING WHEN THE HEAT PUMP COMPRESSOR CAN MEET THE HEATING LOAD PER IECC R403.1.2 (IRC N1103.1.2).
DUCT SEALING	WHEN NEW FORCED AIR SYSTEMS ARE PROVIDED, ALL DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED PER IRC M1601.4.1. DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER A ROUGH-IN OR POSTCONSTRUCTION TEST PER IECC R403.3.3 (IRC N1103.3.3) UNLESS DUCTS AND AIR HANDLERS ARE LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.
BUILDING CAVITIES AS DUCTS OR PLENUMS	BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS PER IECC R403.3.5 (IRC N1103.3.5).
MECHANICAL SYSTEM PIPING INSULATION	MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F OR BELOW 55°F SHALL BE INSULATED TO R-3 MINIMUM PER IECC R403.4 (IRC N1103.4). PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DEGRADATION AND DECAY PER IECC R403.4.1 (IRC N1103.4.1).
CIRCULATING HOT WATER SYSTEMS	CIRCULATING HOT WATER SYSTEMS SHALL BE PROVIDED WITH AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH TO TURN OFF THE CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE PER IECC R403.5.1 (IRC N1103.5.1).
MECHANICAL VENTILATION	THE BUILDING SHALL BE PROVIDED WITH VENTILATION PER IRC M1505 OR OTHER APPROVED MEANS OF VENTILATION PER IECC R403.6 (IRC N1103.6). WHOLE-HOUSE VENTILATION FANS SHALL MEET EFFICIENCY STANDARDS PER IECC TABLE R403.6.1 (IRC TABLE N1103.6.1).
EQUIPMENT SIZING	HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATION METHODOLOGIES PER IECC R403.7 (IRC N1103.7).
SYSTEMS SERVING MULTIPLE DWELLING UNITS	SYSTEMS SERVING MULTIPLE DWELLING UNITS SHALL CONFORM TO IECC SECTIONS C403 AND C404.
SNOW MELT SYSTEMS CONTROLS	SNOW AND ICE MELT SYSTEMS SUPPLIED THROUGH ENERGY SERVICE TO THE BUILDING SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF THE SYSTEM WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50°F AND NO PRECIPITATION IS FALLING, AND AUTOMATIC OR MANUAL CONTROLS CAPABLE OF SHUTTING OFF THE SYSTEM WHEN THE OUTDOOR TEMPERATURE IS ABOVE 40°F PER IECC R403.9 (IRC N1103.9).
POOLS AND INGROUND PERMANENTLY INSTALLED SPAS	POOLS AND INGROUND SPA HEATERS SHALL HAVE AN ACCESSIBLE ON-OFF SWITCH MOUNTED ON THE OUTSIDE OF THE HEATER THAT ALLOWS SHUT-OFF WITHOUT AFFECTING THE THERMOSTAT SETTING PER IECC R403.10.1 (IRC N1103.10.1); GAS-FIRED HEATERS SHALL NOT HAVE CONSTANT BURNING PILOT LIGHTS. HEATERS SHALL HAVE TIME SWITCHES OR OTHER CONTROL METHODS TO AUTOMATICALLY TURN ON AND OFF PER A PRESET SCHEDULE PER IECC R403.10.2 (IRC N1103.10.2). HEATED POOLS AND INGROUND SPAS SHALL BE PROVIDED WITH A VAPOR-RETARDANT COVER PER IECC R403.10.3 (IRC N1103.10.3).
LIGHTING EQUIPMENT	A MINIMUM OF 90% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS PER IECC R404.1 (IRC N1104.1).
FUEL GAS LIGHTING SYSTEMS	FUEL GAS SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHT SYSTEMS PER IECC R404.1.1 (IRC N1104.1.1).

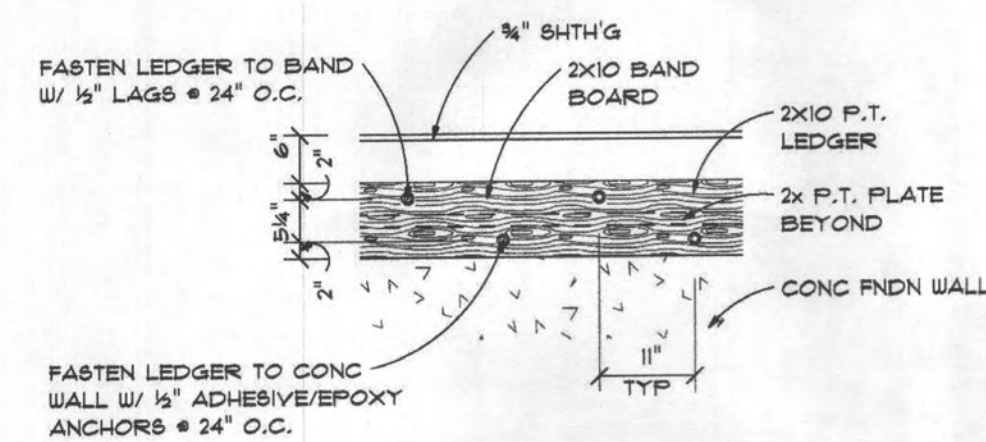
THE BUILDING SHALL ALSO CONFORM TO THE FOLLOWING PRESCRIPTIVE REQUIREMENTS:

THE BUILDING CONFORMS TO THE PRESCRIPTIVE REQUIREMENTS DETAILED IN THE CHART BELOW PER IECC R402.1.2 & R402.1.3 (IRC N1102.1.2 & N1102.1.3). EQUIVALENT U-FACTORS MAY BE SUBSTITUTED FOR REQUIRED R-VALUES PER IECC R402.1.4 (IRC N1102.1.4). THE BUILDING SHALL ALSO CONFORM TO THE DETAILED REQUIREMENTS OF IECC R402.2 (IRC N1102.2).

COMPONENT	REQUIRED VALUE
CEILING/ROOF	R-49 (COMPRESSED OVER WALL TOP PLATE AT EAVES) OR R-38 (UNCOMPRESSED OVER WALL TOP PLATE AT EAVES)
WALLS	R-20 CAVITY OR R-13 CAVITY PLUS R-5 CONTINUOUS
BASEMENT WALLS	R-10 CONTINUOUS OR R-13 CAVITY
SLAB	R-10, 2" DEPTH
CRAWLSPACE WALLS	R-10 CONTINUOUS OR R-13 CAVITY
FLOORS OVER UNCONDITIONED SPACE	R-19
DUCTS OUTSIDE CONDITIONED SPACE	R-8 FOR SUPPLY DUCTS IN ATTICS R-6 FOR ALL OTHER DUCTS
HOT WATER PIPES	R-3 UNLESS OTHERWISE ALLOWED BY IECC R403.5.3 (IRC N1103.5.3)
FENESTRATION	U-FACTOR = 0.32 MAX; SHGC = 0.40 MAX
SKYLIGHTS	U-FACTOR = 0.55 MAX; SHGC = 0.40 MAX

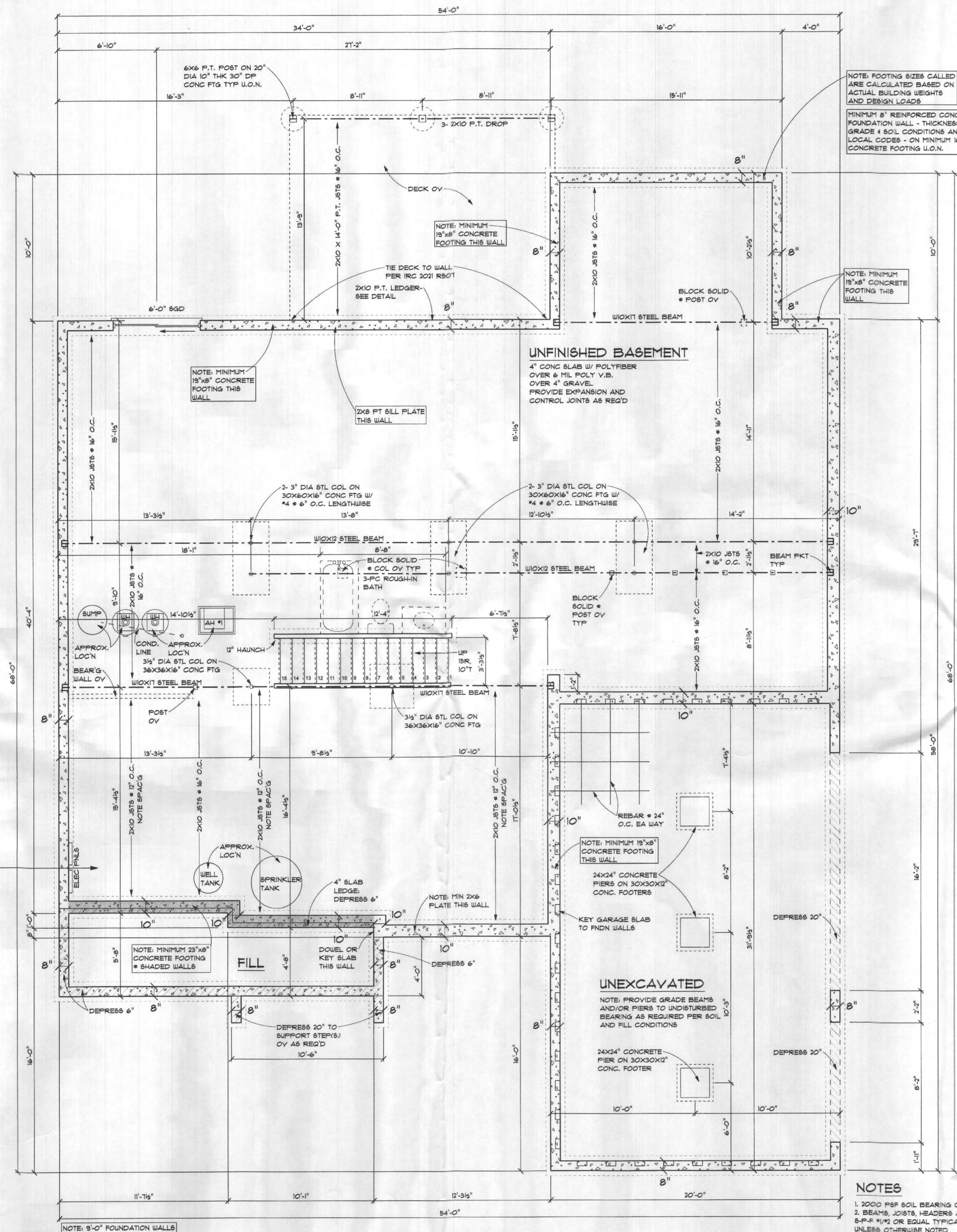
PRESCRIPTIVE R-VALUE COMPLIANCE PATH

2021 CODE



Ledger Fastening Detail
SCALE: 1/2" = 1'-0"

ELECTRIC METER



Foundation Plan
SCALE: 1/4" = 1'-0"

HYAC
C.F.A. = 4,304

NOTE: PLUMBER
PASSIVE RADON SYSTEM
3" PVC PIPE VENTED THROUGH
ROOF (LOCATION PER PLUMBER)

HVAC: EQUIPMENT - GOODMAN
ZONE 1: 92% EFFICIENCY PROPANE GAS
FURNACE WITH 14 SEER A/C UNIT 3 1/2 TON
ZONE 2: 14 SEER HEAT PUMP 3 1/2 TON
* VENT RANGE HOOD TO EXTERIOR

NOTE: 9'-0" FOUNDATION WALLS

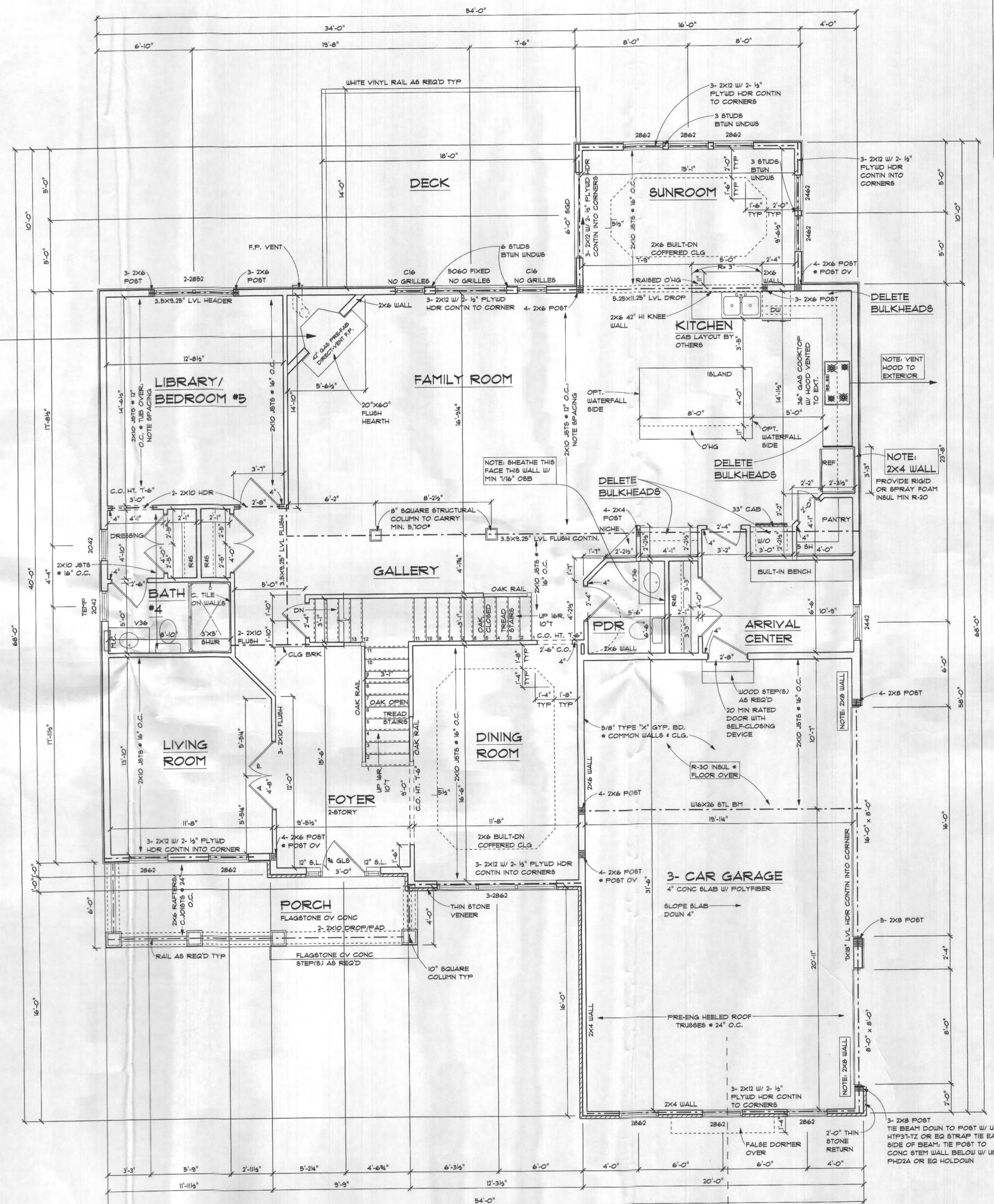
NOTES
1. 2000 PSF SOIL BEARING CAPACITY ASSUMED.
2. BEAMS, JOISTS, HEADERS AND RAPTERS TO BE
8-2x8 #11, OR EQUAL, TYPICAL THROUGHOUT
UNLESS OTHERWISE NOTED.
3. VERIFY SIZE AND LOCATIONS OF DOORS AND
WINDOWS THIS PLAN PER GRADE AND BUILDER

2021 CODE

NOTE: ELECTRICIAN:
HARDWARE BOX INSIDE FIREPLACE

FAMILY ROOM FIREPLACE: HEATILATOR
FIREPLACES PROPANE GAS PRE
ENGINEERED DIRECT VENT FIREPLACE
F.P. ROUGH OPENING, HEATILATOR FIREPLACE

CONTACT INFO:
FIRESIDE HEARTH & HOME
BONNIE GEYER (703) 367-9218
CALL TO:
1) SET/INSTALL F.P.
2) SET MANTEL & SURROUND & START UP F.P.



NOTE: 9'-10" WALL HGT
ANGLES 45 DEGREES TYP U.O.N.
APPROX. 2,107 SF 1ST FLOOR
First Floor Plan
SCALE: 1/4" = 1'-0"

THE ESTATES AT RIVER HILL INTERIOR TRIM PACKAGE
DOORS: 1ST & 2ND FLOORS - PREHUNG MASONITE, RAISED CAMDEN
DOOR HARDWARE: SATIN NICKEL STOPS, KNOBS, HINGES, AND HANDLES
DOOR TRIM: 1ST & 2ND FLOORS - 3/4" BEADED EDGE CASING, FINGER JOINT
BASE: 1ST & 2ND FLOORS - 5/4" WM-163E
CHAIR RAIL: TWO PIECES WM-302 W/ 4/4" BEADED BOTTOM BACKER IN DINING ROOM
CROWN MOULDING: THREE PIECE 4 5/8" CROWN W/ BEADED BOTTOM BACKER W/ #183 TRIM IN LIVING ROOM, DINING ROOM, FOYER, SECOND FLOOR HALL, AND LIBRARY/ BEDROOM #5
COFFERED CEILING: TWO PIECE 4 5/8" CROWN W/ BOTTOM BACKER

NOTE: CARPENTER
ALLOW 4" FOR 3/4" CASING
ON 1ST & 2ND FLOORS

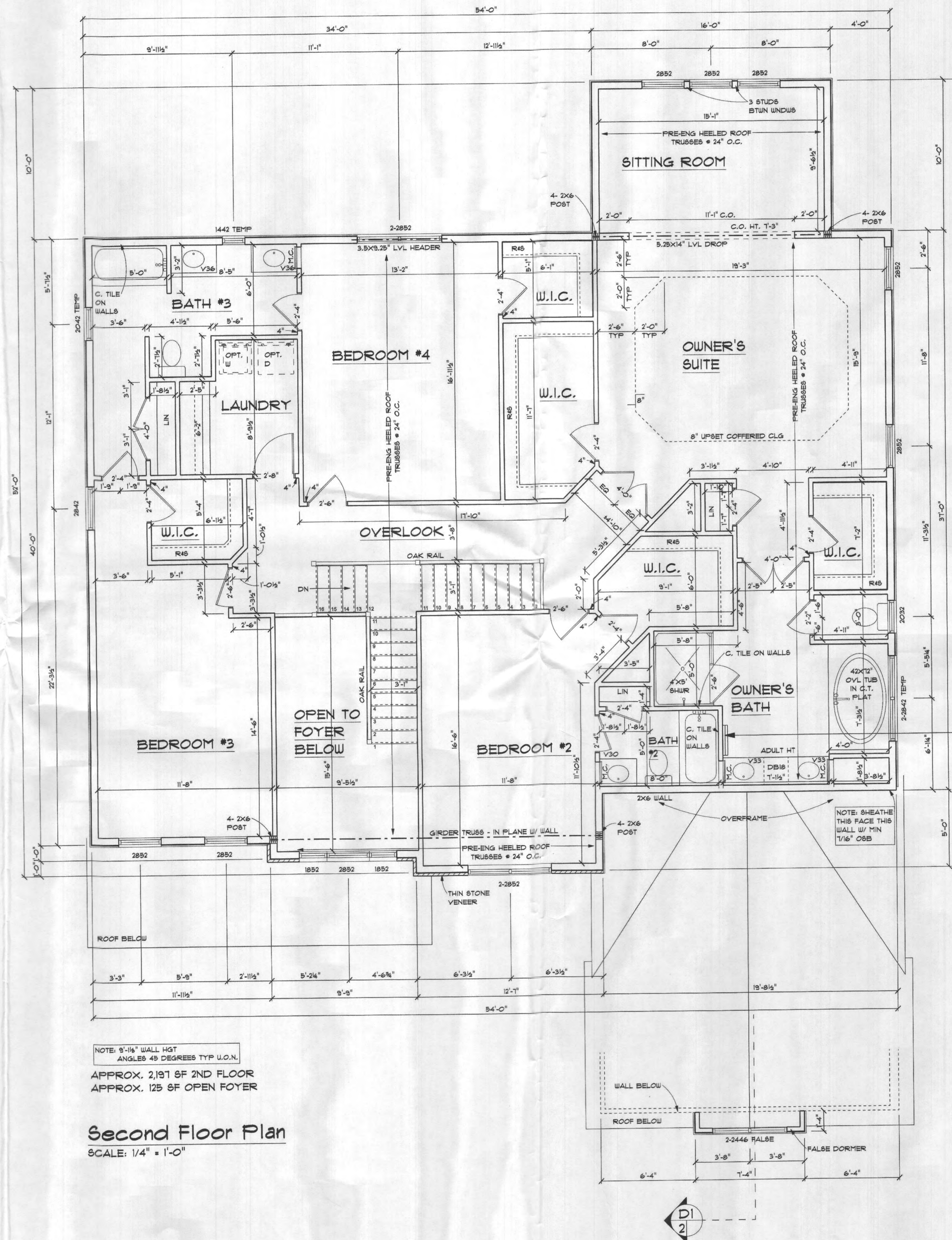
NOTE: INTERIOR STAIRS SHALL CONFORM
TO THE FOLLOWING GEOMETRY:

STRAIGHT:
RISER HEIGHT 1.75" MAX
TREAD DEPTH 10" MIN
NOSING .75" MIN 1.25" MAX
(NOTE: NOSING MAY BE OMITTED &
TREAD DEPTH OF 11" OR GREATER)

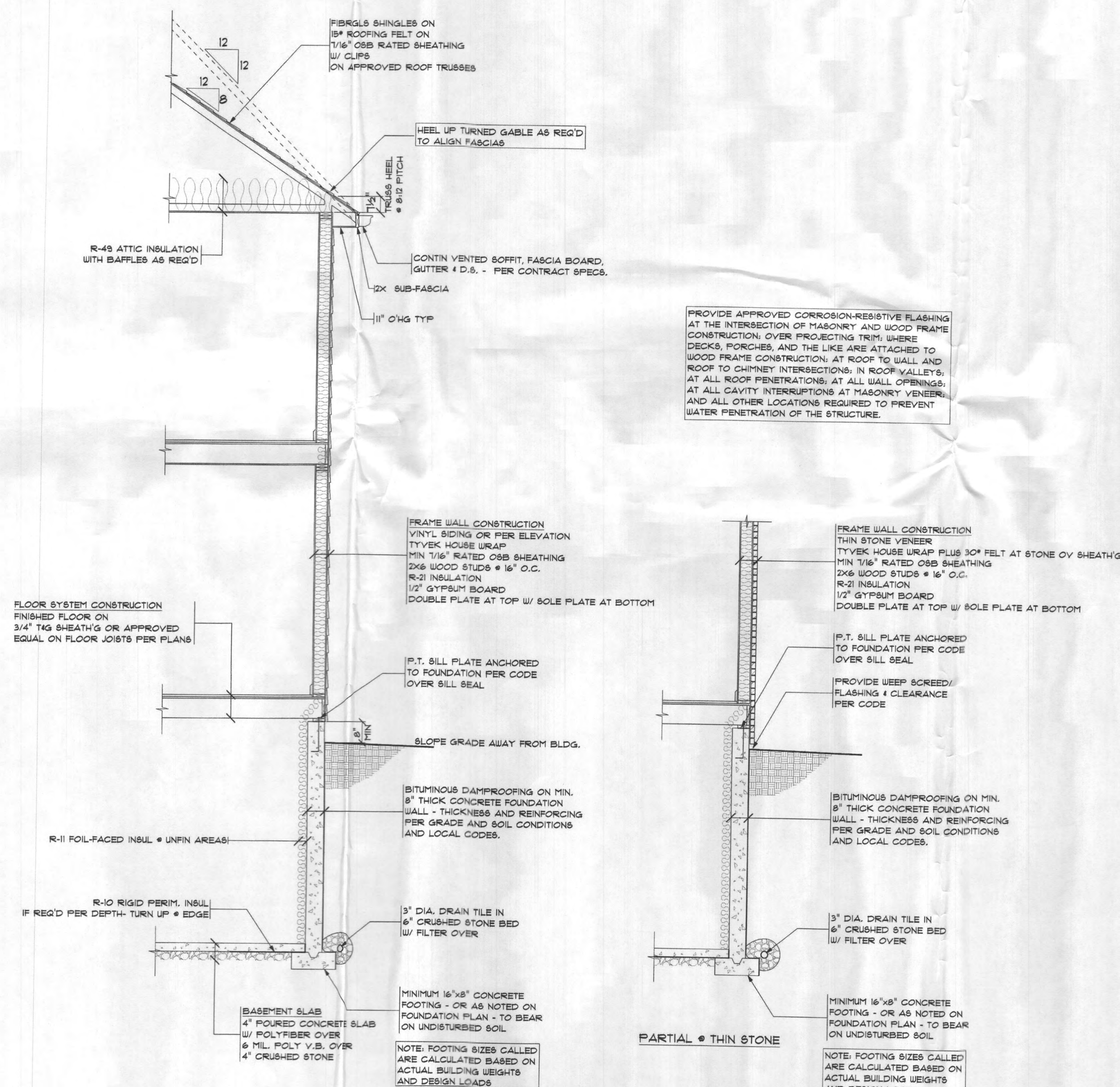
NOTE: 9' CEILINGS U.O.N.
2X6 EXTERIOR WALLS U.O.N.

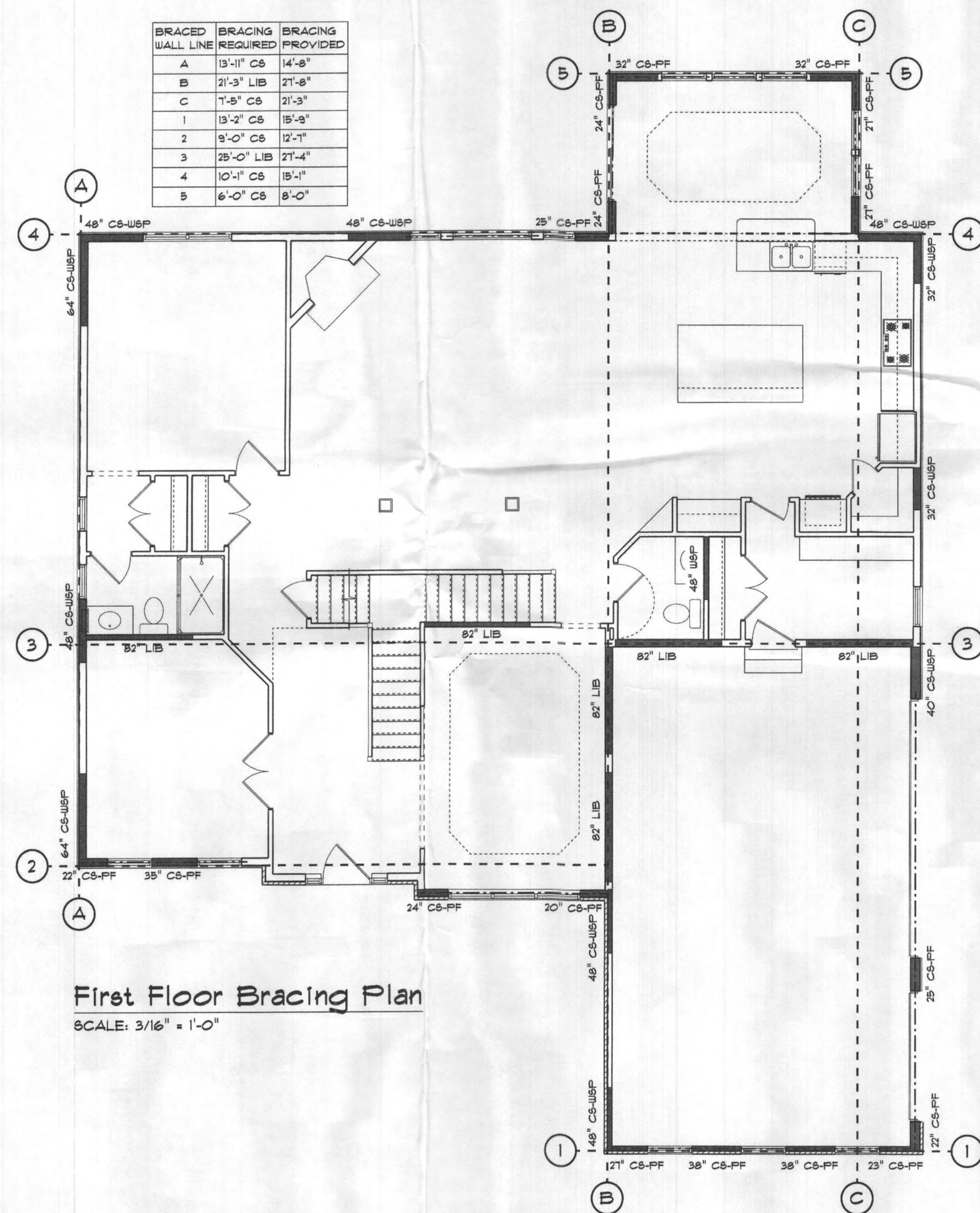
GARAGE DOOR OPENERS

ADULT HEIGHT POWDER
ROOM VANITY

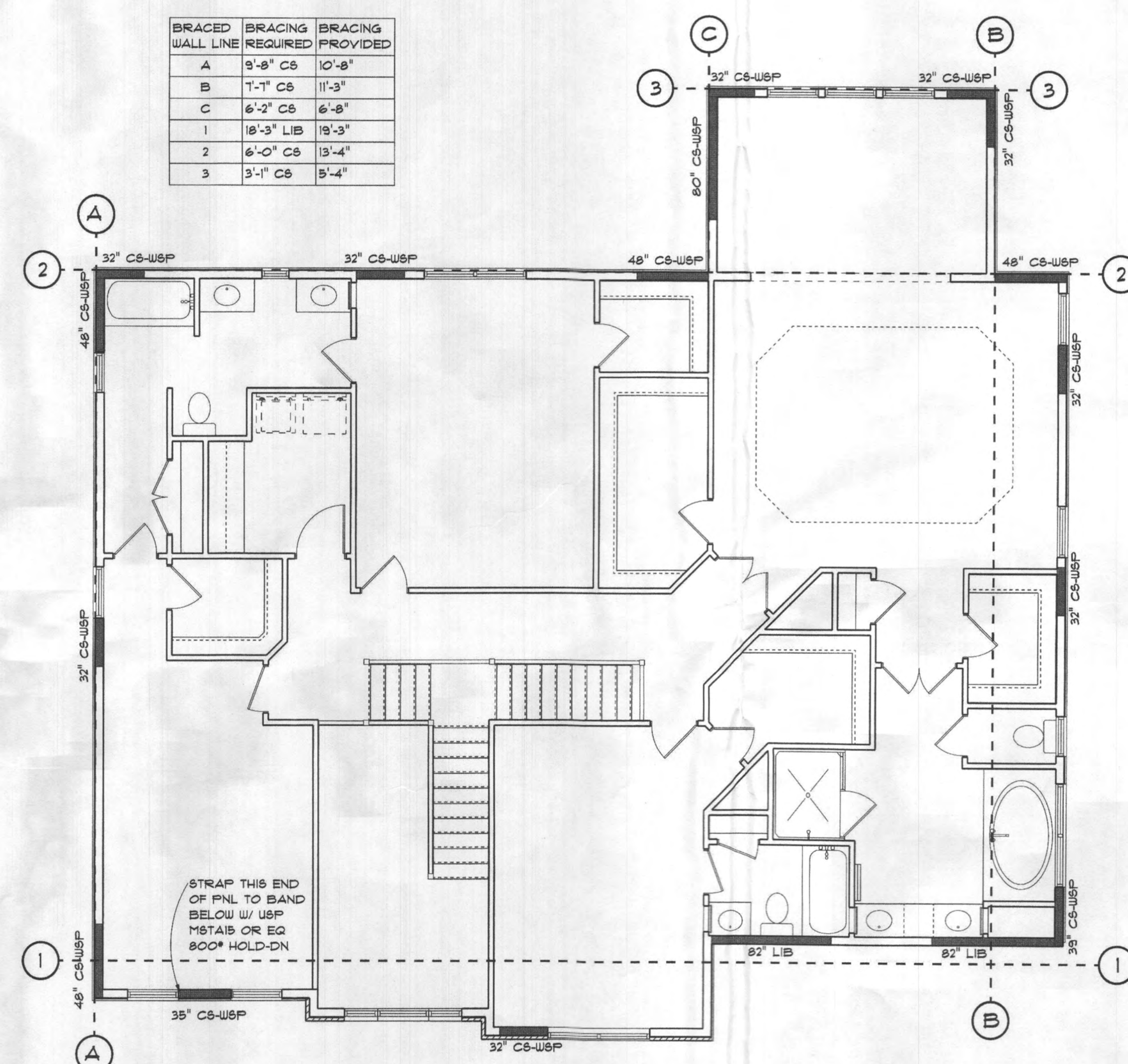


2021 CODE





First Floor Bracing Plan
SCALE: 3/16" = 1'-0"



Second Floor Bracing Plan
SCALE: 3/16" = 1'-0"

2021 CODE